

LIQUID INTERFACE DETECTING DEVICE

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Abstract

PURPOSE: To improve detecting accuracy, by sending an ultrasonic wave toward the interface between oil and water from the bottom part of a tank, receiving the reflected wave from the interface, obtaining the position of the interface based on the time of the wave reception, and guiding the transmitted wave and reflected wave.

CONSTITUTION: An ultrasonic wave transmitting and receiving device 21 is provided at the bottom part of a tank 20. A wave guide 22 is uprightly provided at the position around the device 21. The received signal of the reflected ultrasonic wave, which is detected by the ultrasonic wave transmitting and receiving device 21, is guided to an operating part 50. The data corresponding to the time difference from the transmitted ultrasonic wave is obtained by an integrating circuit 52. Temperature correction is performed by a temperature-correcting circuit 54. The result is displayed by a meter 60 as a signal indicating the height of an interface A between oil and water.

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